



Workshop on ongoing research on the Potentials for green ammonia in the South African mining sector
 by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
 conducted by the African Fertiliser and Agribusiness Partnership (AFAP)

13 May 2025, 10:00-13:00 SAST



International PtX Hub

Centre of **EXPERTISE** and **COLLABORATION**

With strong international networks for a sustainable market development

Supported by:



Federal Ministry
for Economic Affairs
and Climate Action

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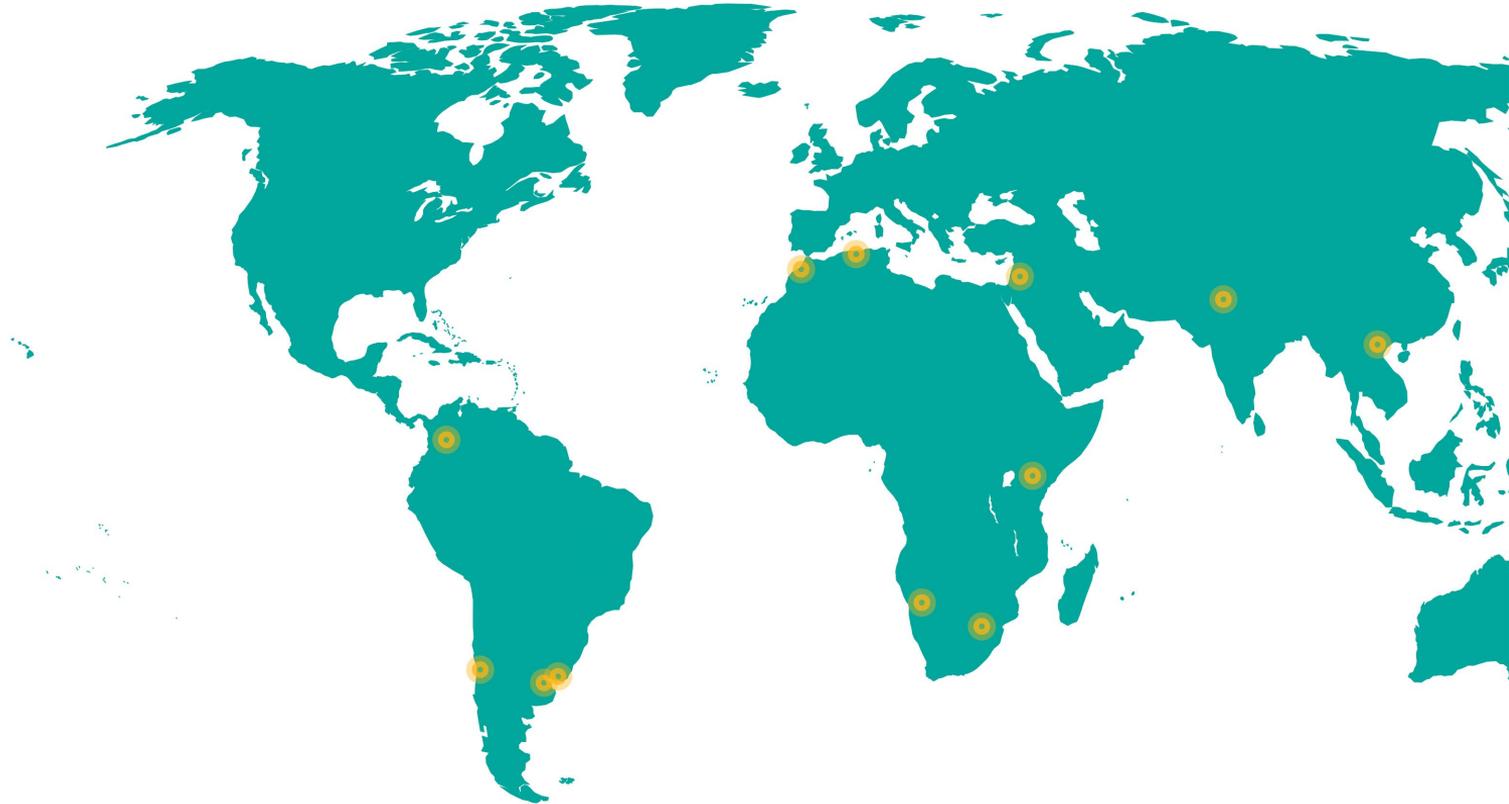
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Implemented by

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Countries develop a sustainable PtX market as a building block of their energy transition



PtX Hub South Africa

Objectives

Supporting the development of sustainable markets for hydrogen (H₂) and synthetic products (Power-to-X, PtX)

Context

Huge potential for renewable energies, vast land areas and global leader in Fischer-Tropsch-Technology: South Africa could play a leading role in Power-to-X. But with its abundance of natural resources like platinum and iridium, the high interest across political decision-makers, private businesses and academia, South Africa can make it a likely a place for global Power-to-X production to succeed.

Political Partner

Department of Trade, Industry and Competition of the Republic of South Africa (DTIC)

Implementation Partner South Africa



Budget | Duration

3,1 mio. EUR | 01/2022 – 12/2025

GIZ Project Team SA



Alexander Mahler
Lead



Medina Willies
Advisor



Johannes Arndt
Advisor



Maren Schöttler
Comms / Advisor



Agenda for today

<p>09:30 – 10:30</p>	<p>Setting the scene Welcome, introductions & context</p>	<p>Alexander Mahler, Project Lead PtX Hub South Africa and H2.SA, GIZ Maren Schöttler, Advisor, PtX Hub South Africa, GIZ</p>
<p>10:30 – 12:15</p>	<p>Presentation of research results to date</p> <p>1) The potential for green ammonia and fertiliser in Africa</p> <p>2) Green hydrogen and ammonia in mining</p> <p>Introduction to Green Hydrogen and Ammonia</p> <ul style="list-style-type: none"> • Exploration of the role and potential benefits of green hydrogen and ammonia in mining. <p>Market Applications of Green Ammonia and Its Derivatives</p> <ul style="list-style-type: none"> • Examination of how green ammonia and its derivatives can be applied in the mining industry. <p>Impact on sustainability practices within the sector</p> <ul style="list-style-type: none"> • Impact on Sustainability Practices Insight into how adoption of these solutions aligns with ESG (Environmental, Social, Governance) goals and carbon neutrality targets in the mining sector <p>3) Critical Raw Materials for the South African Energy Transition</p>	<p>Killian Banda, Senior Specialist, Market Intelligence at African Fertilizer Agribusiness Partnership (AFAP)</p> <p>Thabo Gcwabaza, Mining Expert at African Fertilizer Agribusiness Partnership (AFAP)</p> <p>Viaksha Mohabir, Technical Advisor: Green Hydrogen South Africa (GIZ)</p>
<p>12:15– 13:00</p>	<p>Roundtable Discussion of study preliminary results & of participant’s insights and perspectives</p>	
<p>13:00 – 14:30</p>	<p>Networking lunch</p>	